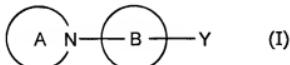


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A compound represented by formula (I):



wherein ring A represents an azepane ring;

ring B represents a pyrimidine ring which may be substituted with 1-5 of R³;

plural R³'s each independently represents (1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of R¹⁰, (2) oxo, or (3)R¹⁰,

plural R¹⁰'s each independently represents (1) OR¹¹, (2) OCOR¹², (3) OCOOR¹³, (4) NR¹⁴R¹⁵, (5) NR¹⁶COR¹², (6) NR¹⁶CONR¹⁴R¹⁵, (7) NR¹⁶COOR¹³, (8) COOR¹³, (9) COR¹², (10) CONR¹⁴R¹⁵, (11) SO₂R¹², (12) SOR²², (13) SO₂NR²⁴R²⁵, (14) NR¹⁶SO₂R¹², (15) B(OH)₂, (16) SR¹¹, (17) halogen, (18) nitro, (19) cyano, or (20) ring D;

R¹¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of halogen, NR¹⁴R¹⁵, OR²¹, SR²¹, COOR¹³, or ring D, or (iii) ring D;

R¹², R¹³, R¹⁴, R¹⁵ and R¹⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring D, or (iii) ring D;

ring D represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine,

oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoxepine, benzoazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene, dibenzothiophene, phenothiazine, phenoxazine, phenoxathiin, thianthrene, phenanthridine, phenanthroline, perimidine, pyrrolidine, pyrrolidone, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydroadiazepine, tetrahydroadiazepine, perhydroadiazepine, dihydrooxazole, tetrahydrooxazole (exazolidine), dihydroisoxazole, tetrahydroisoxazole (isoxazolidine), dihydrothiazole, tetrahydrothiazole (thiazolidine), dihydroisothiazole, tetrahydroisothiazole (isothiazolidine), dihydrofurazan, tetrahydrofurazan, dihydroxadiazole, tetrahydrooxadiazole (oxadiazolidine), dihydrooxazine, tetrahydrooxazine, dihydroxadiazine, tetrahydrooxadiazine, dihydrooxazepine, tetrahydrooxazepine, perhydrooxazepine, dihydrooxadiazepine, tetrahydrooxadiazepine, perhydroadiazepine, dihydrothiadiazole, tetrahydrothiadiazole (thiadiazolidine), dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine, tetrahydrothiadiazine, dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine, dihydrothiadiazepine,

tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane, indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline, perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline, dihydropthalazine, tetrahydروphthalazine, perhydropthalazine, dihydronaphthyridine, tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline, perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole, dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole, dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydralene, azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene, teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene, anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane; and

ring D may be substituted with 1 to 5 of the groups selected from the following (1) to

(22):

(1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl or alkynyl may be substituted with 1 to 5 of OR²¹, OCOR²², OCOOR²³, NR²⁴R²⁵, NR²⁶COR²², NR²⁶CONR²⁴R²⁵, NR²⁶COOR²³, COOR²³, COR²², CONR²⁴R²⁵, SO₂R²², SOR²², SO₂NR²⁴R²⁵, NR²⁶SO₂R²², B(OH)₂, SR²¹, halogen, nitro or cyano, (2) oxo, (3) OR²¹, (4) OCOR²², (5) OCOOR²³, (6) NR²⁴R²⁵, (7) NR²⁶COR²², (8) NR²⁶CONR²⁴R²⁵, (9) NR²⁶COOR²³, (10) COOR²³, (11) COR²², (12) CONR²⁴R²⁵, (13) SO₂R²², (14) SOR²², (15) SO₂NR²⁴R²⁵, (16) NR²⁶SO₂R²², (17) B(OH)₂, (18) SR²¹, (19) halogen, (20) nitro, (21) cyano or (22) ring E;

R²¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with COR²², NR²⁴R²⁵ or ring E, or (iii) ring E;

R²², R²³, R²⁴, R²⁵ and R²⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring E, or (iii) ring E;

ring E represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene,

dibenzothiophene, phenothiazine, phenoxyazine, phenoxyathiin, thianthrene, phenanthridine, phenanthroline, perimidine, pyrrolidine, pyrrolidone, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrazine, dihydropyrazine, tetrahydropyrazine, piperazine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydrodiazepine, tetrahydrodiazepine, perhydrodiazepine, dihydrooxazole, tetrahydrooxazole (oxazolidine), dihydroisoxazole, tetrahydroisoxazole (isoxazolidine), dihydrothiazole, tetrahydrothiazole (thiazolidine), dihydroisothiazole, tetrahydroisothiazole (isothiazolidine), dihydrofuran, tetrahydrofuran, dihydroxadiazole, tetrahydrooxadiazole (oxadiazolidine), dihydrooxazine, tetrahydrooxazine, dihydroxadiazine, tetrahydrooxadiazine, dihydrooxazepine, tetrahydrooxazepine, perhydrooxazepine, dihydroxadiazepine, tetrahydrooxadiazepine, perhydroxadiazepine, dihydrothiadiazole, tetrahydrothiadiazole (thiadiazolidine), dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine, tetrahydrothiadiazine, dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine, dihydrothiadiazepine, tetrahydrothiadiazepine, perhydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane, indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline, perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline, dihydropthalazine, tetrahydropthalazine, perhydropthalazine, dihydronaphthyridine, tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline, perhydroquinoxaline, perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole,

dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole, dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene, azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene, teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene, anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane, and

ring E may be substituted with 1 to 5 of (i) C1-15 alkyl which may be substituted with phenyl, (ii) halogen, (iii) phenyl, (iv) C1-15 alkoxy, (v) hydroxyl, (vi) amino, (vii) mono(C1-8 alkyl)amino, or (viii) di(C1-8 alkyl)amino; and

Y represents



wherein G represents a bond or a methylene;

ring J represents an azetidine, a pyrrolidine, a piperidine or a perhydroazepine which may be substituted with 1-5 of R³; and

W represents hydrogen, a methyl, an ethyl, an isobutyl, a 3-methyl butyl, a 2-ethylbutyl, a cyclohexylmethyl, a cyclohexyl, a cyclopentyl, a benzyl, a benzene, cyclohexanol, 1-(cyclohexylcarbonyl)piperidine, a tetrahydropyran-4-yl or a piperidine, or a salt thereof.

2.-5. (canceled)

6. (currently amended): The compound according to claim 1, which is represented by formula (I-2):



wherein ring B represents a pyrimidine ring which may be substituted with 1-5 of R³; plural R³'s each independently represents (1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of R¹⁰, (2) oxo, or (3)R¹⁰;

plural R¹⁰'s each independently represents (1) OR¹¹, (2) OCOR¹², (3) OCOOR¹³, (4) NR¹⁴R¹⁵, (5) NR¹⁶COR¹², (6) NR¹⁶CONR¹⁴R¹⁵, (7) NR¹⁶COOR¹³, (8) COOR¹³, (9) COR¹², (10) CONR¹⁴R¹⁵, (11) SO₂R¹², (12) SOR²², (13) SO₂NR²⁴R²⁵, (14) NR¹⁶SO₂R¹², (15) B(OH)₂, (16) SR¹¹, (17) halogen, (18) nitro, (19) cyano, or (20) ring D;

R¹¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of halogen, NR¹⁴R¹⁵, OR²¹, SR²¹, COOR¹³, or ring D, or (iii) ring D;

R¹², R¹³, R¹⁴, R¹⁵ and R¹⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring D, or (iii) ring D; ring D represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene, dibenzothiophene, phenothiazine, phenoxazine, phenoxathiin, thianthrene, phenanthridine, phenanthroline, perimidine, pyrrolidine, pyrrolidone, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrazine, dihydropyrazine, tetrahydropyrazine, piperazine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydroniazepine, tetrahydroniazepine, perhydroniazepine, dihydrooxazole, tetrahydrooxazole (oxazolidine), dihydroisoxazole, tetrahydroisoxazole-(isoxazolidine), dihydrothiazole, tetrahydrothiazole-(thiazolidine), dihydroisothiazole, tetrahydroisothiazole-(isothiazolidine), dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole, tetrahydrooxadiazole-(exadiazolidine), dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine, tetrahydrooxadiazine, dihydrooxazepine,

tetrahydrooxazepine, perhydrooxazepine, dihydrooxadiazepine, tetrahydrooxadiazepine,
perhydrooxadiazepine, dihydrothiadiazole, tetrahydrothiadiazole-(thiadiazolidine),
dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine, tetrahydrothiadiazine,
dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine, dihydrothiadiazepine,
tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane,
indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline,
perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline,
dihydrophthalazine, tetrahydrophthalazine, perhydrophthalazine, dihydronaphthyridine,
tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline,
perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline,
dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine,
dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole,
dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole,
dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine,
benzdioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole,
tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine,
cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane,
cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane,
cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene,
cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalcne, perhydropentalene,
azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene,
teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-
indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene,

anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane; and

ring D may be substituted with 1 to 5 of the groups selected from the following (1) to (22):

(1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl or alkynyl may be substituted with 1 to 5 of OR²¹, OCOR²², OCOOR²³, NR²⁴R²⁵, NR²⁶COR²², NR²⁶CONR²⁴R²⁵, NR²⁶COOR²³, COOR²³, COR²², CONR²⁴R²⁵, SO₂R²², SOR²², SO₂NR²⁴R²⁵, NR²⁶SO₂R²², B(OH)₂, SR²¹, halogen, nitro or cyano, (2) oxo, (3) OR²¹, (4) OCOR²², (5) OCOOR²³, (6) NR²⁴R²⁵, (7) NR²⁶COR²², (8) NR²⁶CONR²⁴R²⁵, (9) NR²⁶COOR²³, (10) COOR²³, (11) COR²², (12) CONR²⁴R²⁵, (13) SO₂R²², (14) SOR²², (15) SO₂NR²⁴R²⁵, (16) NR²⁶SO₂R²², (17) B(OH)₂, (18) SR²¹, (19) halogen, (20) nitro, (21) cyano or (22) ring E;

R²¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with COR²², NR²⁴R²⁵ or ring E, or (iii) ring E;

R²², R²³, R²⁴, R²⁵ and R²⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring E, or (iii) ring E;

ring E represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene,

benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine,
benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole,
benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene,
dibenzothiophene, phenothiazine, phenoxazine, phenoxathiin, thianthrene, phenanthridine,
phenanthroline, perimidine, pyrrolidine, pyrrolidone, imidazoline, imidazolidine, triazoline,
triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine,
tetrahydropyridine, piperidine, dihydropyrazine, tetrahydropyrazine, piperazine,
dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine,
tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine,
dihydrodiazepine, tetrahydrodiazepine, perhydrodiazepine, dihydrooxazole, tetrahydrooxazole
(~~exazolidine~~), dihydroisoxazole, tetrahydroisoxazole (~~isoxazolidine~~), dihydrothiazole,
tetrahydrothiazole (~~thiazolidine~~), dihydroisothiazole, tetrahydroisothiazole (~~isothiazolidine~~),
dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole, tetrahydrooxadiazole (~~exadiazolidine~~),
dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine, tetrahydrooxadiazine, dihydrooxazepine,
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tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane,
indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline,
perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline,
dihydrophthalazine, tetrahydrophthalazine, perhydrophthalazine, dihydronaphthyridine,
tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline,

perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole, dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole, dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene, azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene, teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, ass-indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene, anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane, and

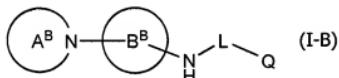
ring E may be substituted with 1 to 5 of (i) C1-15 alkyl which may be substituted with phenyl, (ii) halogen, (iii) phenyl, (iv) C1-15 alkoxy, (v) hydroxyl, (vi) amino, (vii) mono(C1-8 alkyl)amino, or (viii) di(C1-8 alkyl)amino;

ring J represents an azetidine, a pyrrolidine, a piperidine or a perhydroazepine which may be substituted with 1-5 of R³; and

W represents hydrogen, a methyl, an ethyl, an isobutyl, a 3-methyl butyl, a 2-ethylbutyl, a cyclohexylmethyl, a cyclohexyl, a cyclopentyl, a benzyl, a benzene, cyclohexanol, 1-(cyclohexylcarbonyl)piperidine, a tetrahydropyran-4-yl or a piperidine.

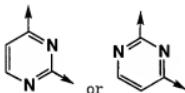
7. (canceled)

8. (currently amended): A compound represented by formula (I-B):



wherein ring A^B represents an azepane ring;

ring B^B represents:



wherein the upward arrow represents a binding position to ring A^B ; and the right-downward arrow represents a binding position to the nitrogen atom bound to L;

L represents (1) a bond, (2) C1-8 alkylene, C2-8 alkenylene or C2-8 alkynylene, wherein the alkylene, alkenylene and alkynylene each may be substituted with 1 to 5 of R¹⁰, or (3) a C3-8 carbocyclic group which may be substituted with R³;

Q represents (1) NR¹R² wherein R¹ and R² each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with 1 to 5 of R¹⁰, (iii) a C3-8 carbocyclic group which may be substituted with 1 to 5 of R³, or (iv) a 5- to 15-

membered heterocyclic group which contains 1 or 2 nitrogen atoms, 1 or 2 oxygen atoms and/or one sulfur atom and which may be substituted 1 to 5 of R³, or (2) ring C;

ring C represents a 4- to 15-membered heterocyclic group which is fully saturated and which contains at least one nitrogen atom and may further contain 1 or 2 nitrogen atoms, 1 or 2 oxygen atoms and/or one sulfur atom azetidine, pyrrolidine, imidazoline, imidazolidine, triazolidine, tetrazolidine, pyrazolidine, tetrahydropyridine, piperidine, tetrahydropyrazine, piperazine, tetrahydropyrimidine, perhydropyrimidine, tetrahydropyridazine, perhydropyridazine, tetrahydroazepine, perhydroazepine, perhydroazocene, tetrahydroadiazepine, perhydroadiazepine, tetrahydrooxazole, tetrahydroisoxazole, tetrahydrothiazole, tetrahydroisothiazole, tetrahydrofurazan, tetrahydrooxadiazole, tetrahydroxazine, tetrahydroxadiazine, tetrahydrooxazepine, perhydroxazepine, tetrahydrooxadiazepine, perhydroxadiazepine, tetrahydrothiadiazole, tetrahydrothiazine, tetrahydrothiadiazine, tetrahydrothiazepine, perhydrothiazepine, tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane, perhydroindazole, perhydroquinoline, perhydroisoquinoline, perhydrophthalazine, perhydronaphthyridine, perhydroquinoline, perhydroquinazoline, perhydrocinnoline, pyrazinomorpholine, perhydrobenzoxazole, perhydrobenzothiazole, perhydrobenzimidazole, perhydrocarbazole, perhydroacridine, perhydroazonine, perhydroazocene, perhydroadiazocene, perhydroadazonine, perhydroadiazocene, diazaundecane, diazadodecane, perhydroindole, perhydroisoindole, perhydro-beta-carboline, perhydrophenazine, perhydrophenothiazine, perhydrophenoxazine, perhydrophenanthridine, perhydrophenanthroline or perhydroperimidine, and which may be substituted with 1 to 5 of R³;

plural R³'s each independently represents (1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of R¹⁰, (2) oxo, or (3) R¹⁰;

plural R¹⁰'s each independently represents (1) OR¹¹, (2) OCOR¹², (3) OCOOR¹³, (4) NR¹⁴R¹⁵, (5) NR¹⁶COR¹², (6) NR¹⁶CONR¹⁴R¹⁵, (7) NR¹⁶COOR¹³, (8) COOR¹³, (9) COR¹², (10) CONR¹⁴R¹⁵, (11) SO₂R¹², (12) SOR²², (13) SO₂NR²⁴R²⁵, (14) NR¹⁶SO₂R¹², (15) B(OH)₂, (16) SR¹¹, (17) halogen, (18) nitro, (19) cyano, or (20) ring D;

R¹¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of halogen, NR¹⁴R¹⁵, OR²¹, SR²¹, COOR¹³, or ring D, or (iii) ring D;

R¹², R¹³, R¹⁴, R¹⁵ and R¹⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring D, or (iii) ring D;

ring D represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene, dibenzothiophene, phenothiazine, phenoxazine, phenoxathiin, thianthrene, phenanthridine,

phenanthroline, perimidine, pyrrolidine, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrazine, tetrahydropyrazine, piperazine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydrodiazepine, tetrahydrodiazepine, perhydrodiazepine, dihydrooxazole, tetrahydrooxazole (**oxazolidine**), dihydroisoxazole, tetrahydroisoxazole (**isoxazolidine**), dihydrothiazole, tetrahydrothiazole (**thiazolidine**), dihydroisothiazole, tetrahydroisothiazole (**isothiazolidine**), dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole, tetrahydrooxadiazole (**oxadiazolidine**), dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine, tetrahydrooxadiazine, dihydrooxazepine, tetrahydrooxazepine, perhydrooxazepine, dihydrooxadiazepine, tetrahydrooxadiazepine, perhydrooxadiazepine, dihydrothiadiazole, tetrahydrothiadiazole (**thiadiazolidine**), dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine, tetrahydrothiadiazine, dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine, dihydrothiadiazepine, tetrahydrothiadiazepine, tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane, indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline, perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline, dihydropthalazine, tetrahydropthalazine, perhydropthalazine, dihydronaphthyridine, tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline, perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole, dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole,

dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene, azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene, teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene, anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane; and

ring D may be substituted with 1 to 5 of the groups selected from the following (1) to (22):

- (1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl or alkynyl may be substituted with 1 to 5 of OR²¹, OCOR²², OCOOR²³, NR²⁴R²⁵, NR²⁶COR²², NR²⁶CONR²⁴R²⁵, NR²⁶COOR²³, COOR²³, COR²², CONR²⁴R²⁵, SO₂R²², SOR²², SO₂NR²⁴R²⁵, NR²⁶SO₂R²², B(OH)₂, SR²¹, halogen, nitro or cyano, (2) oxo, (3) OR²¹, (4) OCOR²², (5) OCOOR²³, (6) NR²⁴R²⁵, (7) NR²⁶COR²², (8) NR²⁶CONR²⁴R²⁵, (9) NR²⁶COOR²³, (10) COOR²³, (11) COR²², (12) CONR²⁴R²⁵, (13) SO₂R²², (14) SOR²², (15) SO₂NR²⁴R²⁵, (16) NR²⁶SO₂R²², (17) B(OH)₂, (18) SR²¹, (19) halogen, (20) nitro, (21) cyano or (22) ring E;

R²¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with COR²², NR²⁴R²⁵ or ring E, or (iii) ring E;

R²², R²³, R²⁴, R²⁵ and R²⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring E, or (iii) ring E;

ring E represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoepine, benzoazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene, dibenzothiophene, phenothiazine, phenoxyazine, phenoxythiin, thianthrene, phenanthridine, phenanthroline, perimidine, pyrrolidine, pyrrolidine, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrazine, tetrahydropyrazine, piperazine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydroadiazepine, tetrahydroadiazepine, perhydroadiazepine, dihydrooxazole, tetrahydrooxazole (oxazolidine), dihydroisoxazole, tetrahydroisoxazole-(isoxazolidine), dihydrothiazole, tetrahydrothiazole-(thiazolidine), dihydroisothiazole, tetrahydroisothiazole-(isothiazolidine),

dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole, tetrahydrooxadiazole-(~~exadiazelidine~~),
dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine, tetrahydrooxadiazine, dihydrooxazepine,
tetrahydrooxazepine, perhydrooxazepine, dihydrooxadiazepine, tetrahydrooxadiazepine,
perhydrooxadiazepine, dihydrothiadiazole, tetrahydrothiadiazole-(~~thiadiazolidine~~),
dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine, tetrahydrothiadiazine,
dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine, dihydrothiadiazepine,
tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine, thiomorpholine, oxathiane,
indoline, isoindoline, dihydroindazole, perhydroindazole, dihydroquinoline, tetrahydroquinoline,
perhydroquinoline, dihydroisoquinoline, tetrahydroisoquinoline, perhydroisoquinoline,
dihydropthalazine, tetrahydروphthalazine, perhydrophthalazine, dihydronaphthyridine,
tetrahydronaphthyridine, perhydronaphthyridine, dihydroquinoxaline, tetrahydroquinoxaline,
perhydroquinoxaline, dihydroquinazoline, tetrahydroquinazoline, perhydroquinazoline,
dihydrocinnoline, tetrahydrocinnoline, perhydrocinnoline, benzoxathiane, dihydrobenzoxazine,
dihydrobenzothiazine, pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole,
dihydrobenzothiazole, perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole,
dihydrobenzazepine, tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine,
benzdioxepane, dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole,
tetrahydrocarbazole, perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine,
cyclopropane, cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane,
cyclodecane, cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane,
cyclopentadecane, cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene,
cyclohexadiene, cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene,
azulene, perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene,

tetrahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene, anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane, bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane, bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane, and

ring E may be substituted with 1 to 5 of (i) C1-15 alkyl which may be substituted with phenyl, (ii) halogen, (iii) phenyl, (iv) C1-15 alkoxy, (v) hydroxyl, (vi) amino, (vii) mono(C1-8 alkyl)amino, or (viii) di(C1-8 alkyl)amino;

ring A^B may be substituted with 1-5 of R^a;

ring B^B may be substituted with 1-5 of R^b;

R^a and R^b each independently represents a group which has the same meaning as the group represented by R³,

or a salt thereof.

9. (previously presented): The compound according to any one of claims 1 and 8, which is

- (1) N-(4-azepan-1-ylpyrimidin-2-yl)ethane-1,2-diamine,
- (2) N¹-(4-azepan-1-ylpyrimidin-2-yl)-N²,N²-dimethylethane-1,2-diamine,
- (3) 4-azepan-1-yl-N-((3S)-1-cyclohexylpyrrolidin-3-yl)pyrimidin-2-amine,
- (4) 4-azepan-1-yl-N-((3S)-1-benzylpyrrolidin-3-yl)pyrimidin-2-amine,
- (5) 4-azepan-1-yl-N-((3S)-1-(2-ethylbutyl)piperidin-3-yl)pyrimidin-2-amine,
- (6) 4-azepan-1-yl-N-[(3S)-1-cyclohexylpiperidin-3-yl]pyrimidin-2-amine,

(7) 4-azepan-1-yl-N-[(3S)-1-tetrahydro-2H-pyran-4-ylpiperidin-3-yl]pyrimidin-2-amine,

(8) 4-(3S)-3-[(4-azepan-1-ylpyrimidin-2-yl)amino]piperidin-1-ylcyclohexanol, or

(9) (3S)-N-(4-azepan-1-ylpyrimidin-2-yl)-1'-(cyclohexylcarbonyl)-1,4'-bipiperidin-3-amine.

10. (**previously presented**): A pharmaceutical composition, which comprises the compound represented by formula (I) according to claim 1, or a salt thereof, and a pharmaceutically acceptable carrier.

11.-22. (**canceled**).

23. (**previously presented**): A CXCR4 antagonist composition, which comprises the compound represented by formula (I-B) according to claim 8, or a salt thereof, as an active ingredient, and a pharmaceutically acceptable carrier.

24.-27. (**canceled**)

28. (**currently amended**): A medicament which comprises the compound according to any one of claims 1 and 8, or a salt thereof, in combination with one or at least two of a reverse transferase inhibitor, a protease inhibitor,

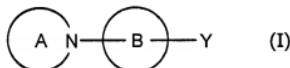
wherein said reverse transferase inhibitor is at least one compound selected from the group consisting of zidovudine, didanosine, zalcitabine, stavudine, lamivudine, abacavir,

adefovir, dipivoxil, emtricitabine, tenofovir, nevirapine, nevirapine, efavirenz and capravirine,
and

wherein said protease inhibitor is at least one compound selected from the group
consisting of indinavir, ritonavir, nelfinavir, saquinavir, amprenavir, and lopinavir.

29- 32. (canceled)

33. (currently amended): A method for treating human immunodeficiency virus infection, which comprises administering to a subject in need thereof an effective amount of a compound represented by formula (I):



wherein ring A represents an azepane ring ;

ring B represents a pyrimidine ring which may be substituted with 1-5 of R³;

plural R³'s each independently represents (1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of R¹⁰, (2) oxo, or (3)R¹⁰;

plural R¹⁰'s each independently represents (1) OR¹¹, (2) OCOR¹², (3) OCOOR¹³, (4) NR¹⁴R¹⁵, (5) NR¹⁶COR¹², (6) NR¹⁶CONR¹⁴R¹⁵, (7) NR¹⁶COOR¹³, (8) COOR¹³, (9) COR¹², (10) CONR¹⁴R¹⁵, (11) SO₂R¹², (12) SOR²², (13) SO₂NR²⁴R²⁵, (14) NR¹⁶SO₂R¹², (15) B(OH)₂, (16) SR¹¹, (17) halogen, (18) nitro, (19) cyano, or (20) ring D;

R¹¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl and alkynyl may be substituted with 1 to 5 of halogen, NR¹⁴R¹⁵, OR²¹, SR²¹, COOR¹³, or ring D, or (iii) ring D;

R¹², R¹³, R¹⁴, R¹⁵ and R¹⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring D, or (iii) ring D;

ring D represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine, oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine, oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole, indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene, indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine, quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene, benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine, benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole, benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene, dibenzothiophene, phenothiazine, phenoxazine, phenoxathiin, thianthrene, phenanthridine, phenanthroline, perimidine, pyrrolidine, pyrrolidine, imidazoline, imidazolidine, triazoline, triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine, tetrahydropyridine, piperidine, dihydropyrazine, tetrahydropyrazine, piperazine, dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine, tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine, dihydroadiazepine, tetrahydroadiazepine, perhydroadiazepine, dihydrooxazole, tetrahydrooxazole, dihydroisoxazole, tetrahydroisoxazole, dihydrothiazole, tetrahydrothiazole, dihydroisothiazole.

tetrahydroisothiazole, dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole,
tetrahydrooxadiazole, dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine,
tetrahydrooxadiazine, dihydrooxazepine, tetrahydrooxazepine, perhydrooxazepine,
dihydrooxadiazepine, tetrahydrooxadiazepine, perhydrooxadiazepine, dihydrothiadiazole,
tetrahydrothiadiazole, dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine,
tetrahydrothiadiazine, dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine,
dihydrothiadiazepine, tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine,
thiomorpholine, oxathiane, indoline, isoindoline, dihydroindazole, perhydroindazole,
dihydroquinoline, tetrahydroquinoline, perhydroquinoline, dihydroisoquinoline,
tetrahydroisoquinoline, perhydroisoquinoline, dihydropthalazine, tetrahydropthalazine,
perhydropthalazine, dihydronaphthyridine, tetrahydronaphthyridine, perhydronaphthyridine,
dihydroquinoxaline, tetrahydroquinoxaline, perhydroquinoxaline, dihydroquinazoline,
tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline,
perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine,
pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole, dihydrobenzothiazole,
perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole, dihydrobenzazepine,
tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane,
dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole,
perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane,
cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane,
cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane,
cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene,
cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene, azulene,

perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene,
tetrahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-
indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene,
anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane,
bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane,
bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane; a C3-15 monoeyelic, bicyclic or tricyclic
earboeyelic group, or a 5- to 15-membered monocyclic, bicyclic or tricyclic heteroeyelic group
which contains 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or one sulfur atom; and

ring D may be substituted with 1 to 5 of the groups selected from the following (1) to

(22):

(1) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl, wherein the alkyl, alkenyl or alkynyl may be substituted with 1 to 5 of OR²¹, OCOR²², OCOOR²³, NR²⁴R²⁵, NR²⁶COR²², NR²⁶CONR²⁴R²⁵, NR²⁶COOR²³, COOR²³, COR²², CONR²⁴R²⁵, SO₂R²², SOR²², SO₂NR²⁴R²⁵, NR²⁶SO₂R²², B(OH)₂, SR²¹, halogen, nitro or cyano, (2) oxo, (3) OR²¹, (4) OCOR²², (5) OCOOR²³, (6) NR²⁴R²⁵, (7) NR²⁶COR²², (8) NR²⁶CONR²⁴R²⁵, (9) NR²⁶COOR²³, (10) COOR²³, (11) COR²², (12) CONR²⁴R²⁵, (13) SO₂R²², (14) SOR²², (15) SO₂NR²⁴R²⁵, (16) NR²⁶SO₂R²², (17) B(OH)₂, (18) SR²¹, (19) halogen, (20) nitro, (21) cyano or (22) ring E;

R²¹ represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with COR²², NR²⁴R²⁵ or ring E, or (iii) ring E;

R²², R²³, R²⁴, R²⁵ and R²⁶ each independently represents (i) hydrogen, (ii) C1-15 alkyl, C2-15 alkenyl or C2-15 alkynyl which may be substituted with ring E, or (iii) ring E;

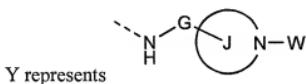
ring E represents pyrrole, imidazole, triazole, tetrazole, pyrazole, pyridine, pyrazine, pyrimidine, pyridazine, azepine, diazepine, furan, pyran, oxepine, thiophene, thiopyran, thiepine,

oxazole, isoxazole, thiazole, isothiazole, furazan, oxadiazole, oxazine, oxadiazine, oxazepine,
oxadiazepine, thiadiazole, thiazine, thiadiazine, thiazepine, thiadiazepine, indole, isoindole,
indolizine, benzofuran, isobenzofuran, benzothiophene, isobenzothiophene, dithianaphthalene,
indazole, quinoline, isoquinoline, quinolizine, purine, phthalazine, pteridine, naphthyridine,
quinoxaline, quinazoline, cinnoline, benzoxazole, benzothiazole, benzimidazole, chromene,
benzoxepine, benzoxazepine, benzoxadiazepine, benzothiepine, benzothiazepine,
benzothiadiazepine, benzazepine, benzodiazepine, benzofurazan, benzothiadiazole,
benzotriazole, carbazole, beta-carboline, acridine, phenazine, dibenzofuran, xanthene,
dibenzothiophene, phenothiazine, phenoxyazine, phenoxythiin, thianthrene, phenanthridine,
phenanthroline, perimidine, pyrrolidine, pyrrolidone, imidazoline, imidazolidine, triazoline,
triazolidine, tetrazoline, tetrazolidine, pyrazoline, pyrazolidine, dihydropyridine,
tetrahydropyridine, piperidine, dihydropyrazine, tetrahydropyrazine, piperazine,
dihydropyrimidine, tetrahydropyrimidine, perhydropyrimidine, dihydropyridazine,
tetrahydropyridazine, perhydropyridazine, dihydroazepine, tetrahydroazepine, perhydroazepine,
dihydrodiazepine, tetrahydrodiazepine, perhydrodiazepine, dihydrooxazole, tetrahydrooxazole,
dihydroisoxazole, tetrahydroisoxazole, dihydrothiazole, tetrahydrothiazole, dihydroisothiazole,
tetrahydroisothiazole, dihydrofurazan, tetrahydrofurazan, dihydrooxadiazole,
tetrahydrooxadiazole, dihydrooxazine, tetrahydrooxazine, dihydrooxadiazine,
tetrahydrooxadiazine, dihydrooxazepine, tetrahydrooxazepine, perhydrooxazepine,
dihydrooxadiazepine, tetrahydrooxadiazepine, perhydrooxadiazepine, dihydrothiadiazole,
tetrahydrothiadiazole, dihydrothiazine, tetrahydrothiazine, dihydrothiadiazine,
tetrahydrothiadiazine, dihydrothiazepine, tetrahydrothiazepine, perhydrothiazepine,
dihydrothiadiazepine, tetrahydrothiadiazepine, perhydrothiadiazepine, morpholine,

thiomorpholine, oxathiane, indoline, isoindoline, dihydroindazole, perhydroindazole,
dihydroquinoline, tetrahydroquinoline, perhydroquinoline, dihydroisoquinoline,
tetrahydroisoquinoline, perhydroisoquinoline, dihydropthalazine, tetrahydropthalazine,
perhydropthalazine, dihydronaphthyridine, tetrahydronaphthyridine, perhydronaphthyridine,
dihydroquinoxaline, tetrahydroquinoxaline, perhydroquinoxaline, dihydroquinoxaline,
tetrahydroquinazoline, perhydroquinazoline, dihydrocinnoline, tetrahydrocinnoline,
perhydrocinnoline, benzoxathiane, dihydrobenzoxazine, dihydrobenzothiazine,
pyrazinomorpholine, dihydrobenzoxazole, perhydrobenzoxazole, dihydrobenzothiazole,
perhydrobenzothiazole, dihydrobenzimidazole, perhydrobenzimidazole, dihydrobenzazepine,
tetrahydrobenzazepine, dihydrobenzodiazepine, tetrahydrobenzodiazepine, benzodioxepane,
dihydrobenzoxazepine, tetrahydrobenzoxazepine, dihydrocarbazole, tetrahydrocarbazole,
perhydrocarbazole, dihydroacridine, tetrahydroacridine, perhydroacridine, cyclopropane,
cyclobutane, cyclopentane, cyclohexane, cycloheptane, cyclooctane, cyclononane, cyclodecane,
cycloundecane, cyclododecane, cyclotridecane, cyclotetradecane, cyclopentadecane,
cyclopentene, cyclohexene, cycloheptene, cyclooctene, cyclopentadiene, cyclohexadiene,
cycloheptadiene, cyclooctadiene, benzene, pentalene, perhydropentalene, azulene,
perhydroazulene, indene, perhydroindene, indan, naphthalene, dihydronaphthalene,
teterahydronaphthalene, perhydronaphthalene, heptalene, perhydroheptalene, biphenylene, as-
indacene, s-indacene, acenaphthylene, acenaphthene, fluorene, phenalene, phenanthrene,
anthracene, spiro[4.4]nonane, spiro[4.5]decane, spiro[5.5]undecane, bicyclo[2.2.1]heptane,
bicyclo[2.2.1]hept-2-ene, bicyclo[3.1.1]heptane, bicyclo[3.1.1]hept-2-ene, bicyclo[2.2.2]octane,
bicyclo[2.2.2]oct-2-ene, adamantine or noradamantane, a C3-15 monocyclic, bicyclic or tricyclic

carboeyelic group, or a 5-to-15 membered monoeyelic, bicyelic or trieyelic heteroeyelic group which contains 1 to 4 nitrogen atoms, 1 or 2 oxygen atoms and/or one sulfur atom, and

ring E may be substituted with 1 to 5 of (i) C1-15 alkyl which may be substituted with phenyl, (ii) halogen, (iii) phenyl, (iv) C1-15 alkoxy, (v) hydroxyl, (vi) amino, (vii) mono(C1-8 alkyl)amino, or (viii) di(C1-8 alkyl)amino; and



wherein G represents a bond or a methylene;

ring J represents an azetidine, a pyrrolidine, a piperidine or a perhydroazepine which may be substituted with 1-5 of R³; and

W represents hydrogen, a methyl, an ethyl, an isobutyl, a 3-methyl butyl, a 2-ethylbutyl, a cyclohexylmethyl, a cyclohexyl, a cyclopentyl, a benzyl, a benzene, cyclohexanol, 1-(cyclohexylcarbonyl)piperidine, a tetrahydropyran-4-yl or a piperidine, or a salt thereof.

34. (canceled)